



EXTENDED GAS ANALYSIS

V0003373 - 1

CONTAINER IDENTITY

1861

WELL LICENSE NUMBER

52136-2003-0125

LABORATORY FILE NUMBER

Paramount Resources Ltd.

OPERATOR

4

PAGE

Para et al Fort Liard I-46

543.0

KB ELEV (m)

537.5

GR ELEV (m)

LOCATION (UWI)

WELL NAME

Fort Liard

Upper Mattson

Opsco Energy

FIELD OR AREA

POOL OR ZONE

SAMPLER

TEST TYPE AND NO.

TEST RECOVERY

Meter Run

POINT OF SAMPLE

CORE LAB SAMPLE POINT ID

1616.0 - 1619.0

PUMPING

FLOWING

GAS LIFT

SWAB

WATER

m³/d

OIL

m³/d

GAS

m³/d

TEST INTERVAL or PERFS (meters)

125

SEPARATOR

RESERVOIR

OTHER

@

°C

106

@

22

°C

CONTAINER

WHEN SAMPLED

CONTAINER

WHEN RECEIVED

SEPARATOR

OTHER

Temperatures, °C

at 11:30 hrs

Pressures, kPa (gauge)

2003 01 08

DATE SAMPLED (Y/M/D)

2003 01 16

DATE RECEIVED (Y/M/D)

2003 01 20

DATE ANALYZED (Y/M/D)

MF

ANALYST

AMT. AND TYPE CUSHION

MUD RESISTIVITY

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m ³ AIR FREE AS RECEIVED
H ₂	Trace	Trace	
He	0.0001	0.0001	
N ₂	0.0092	0.0093	
CO ₂	0.0086	0.0000	
H ₂ S	0.0000	0.0000	
C ₁	0.8889	0.8964	
C ₂	0.0439	0.0443	155.8
C ₃	0.0239	0.0241	87.7
iC ₄	0.0039	0.0040	17.0
C ₄	0.0114	0.0115	47.9
iC ₅	0.0030	0.0031	14.6
C ₅	0.0042	0.0042	20.3
C ₆	0.0018	0.0018	9.3
C ₇₊	0.0011	0.0012	5.6
Total	1.0000	1.0000	358.2

CALCULATED GROSS HEATING VALUE MJ/m ³ @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C	
42.22	42.61	103.3	
MOISTURE FREE	MOISTURE & ACID GAS FREE	PENTANES PLUS	
CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa MOISTURE FREE AS SAMPLED			
0.801 kg/m ³	0.654	18.9	
DENSITY	RELATIVE DENSITY	RELATIVE MOLECULAR MASS	
CALCULATED PSEUDOCRITICAL PROPERTIES AS SAMPLED			
4589.9 kPa (abs)	206.7 K	4565.5 kPa (abs)	205.9 K
pPc	pTc	pPc	pTc
C ₇₊ PROPERTIES @ 15°C & 101.325 kPa		GAS COMPRESSIBILITY	SUPER COMPRESSIBILITY
763.7 kg/m ³	85.6		
DENSITY	MOLECULAR WEIGHT	@ 15°C, 101.325 kPa	@ 15°C, 101.325 kPa

REMARKS:

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO
AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING
GPA 2145 - 00 PHYSICAL CONSTANTS.